

**LOW-LOSS TUNABLE FERRO-ELECTRIC DEVICE AND METHOD  
OF CHARACTERIZATION**

**Abstract**

[98] A tunable ferroelectric component and a narrowband resonant circuit for measuring the loss of the ferroelectric component. The ferroelectric component may be a capacitor integrated in the resonant circuit. The testing method eliminates other sources of loss to isolate the loss due to the ferroelectric material and to demonstrate that this loss is low.